

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Inventors: Brockway et al.
Appellant: Microsoft Corporation
Group Art Unit: 2152
Examiner: Lesniewski, Victor, D
Attorney's Docket No.: MS1-1787US
Title: Seamless Discovery of Workstation-Installed Remote Applications
from an Extranet

RESPONSE TO NON-FINAL OFFICE ACTION DATED AUGUST 17, 2005

To: Commissioner for Patents
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INTRODUCTORY COMMENTS

This communication is responsive to the Office Action dated August 17, 2005.

- An **“Amendments to the Claims”** section begins on page 3 of this paper.
- A **“Remarks/Arguments”** section begins on page 11 of this paper.

AMENDMENTS TO THE CLAIMS

Claims 1-24 are pending. Please amend claims 1 and 5. No claims have been canceled, added, or withdrawn.

The following listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently amended) A method implemented at least in part by a computing device for enumerating applications by a remote client computer, the applications being deployed in an Intranet, the remote client computer being external to the Intranet, the method comprising:

sending a remote application discovery request to a Web service, the Web service being deployed on a remote applications publication (RAP) Web server in the Intranet, the remote application discovery request being sent to the Web service by the remote client computer via a public network coupling the remote client computer to the Web server; and

responsive to the sending, receiving a discovery response from the Web service, the discovery response identifying at least one application installed on the Intranet for terminal server (TS) based access by a user of the remote client computer.

2. (Original) A method as recited in claim 1, wherein the sending and receiving are independent of a Virtual Private Network connection between the remote client computer and the Intranet.

1 3. (Original) A method as recited in claim 1, wherein the at least one
2 application is multiple applications, respective ones of the multiple applications
3 having been published by multiple information sources on the Intranet.

4
5 4. (Previously presented) A method as recited in claim 1, wherein the
6 at least one application is multiple applications, respective ones of the multiple
7 applications having been published by multiple information sources on the
8 Intranet, the multiple information sources comprising one or more of a directory
9 service, a Systems Management Server (SMS), and an office computer associated
10 with the user.

11
12 5. (Currently amended) A method as recited in claim 1, wherein
13 responsive to receiving the discovery response from the Web service, the remote
14 client computer presents respective shortcuts to the user, each shortcut
15 corresponding to an individual one of remote applications identified in the
16 discovery response, each shortcut being selectable by the user to invoke a terminal
17 service, the terminal service executing a corresponding remote application on an
18 associated installation point on the Intranet.

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20 6. (Original) A method as recited in claim 5, wherein the shortcuts
21 represent a merged view of the remote applications, the merged view being
22 independent of respective ones of one or more installations points on the Intranet.
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1 7. (Original) A computer-readable medium comprising computer-
2 executable instructions for enumerating applications by a remote client computer,
3 the applications being deployed in an Intranet, the remote client computer being
4 external to the Intranet, the computer-executable instructions comprising
5 instructions for:

6 sending a remote application discovery request to a Web service, the Web
7 service being deployed on a remote applications publication (RAP) Web server in
8 the Intranet, the remote application discovery request being sent to the Web
9 service by the remote client computer via a public network coupling the remote
10 client computer to the Web server; and

11 responsive to the sending, receiving a discovery response from the Web
12 service, the discovery response identifying at least one application installed on the
13 Intranet for terminal server (TS) based access by a user of the remote client
14 computer.

15
16 8. (Original) A computer-readable medium as recited in claim 7,
17 wherein the instructions for sending and receiving are independent of a Virtual
18 Private Network connection between the remote client computer and the Intranet.

19
20 9. (Original) A computer-readable medium as recited in claim 7,
21 wherein the at least one application is multiple applications, respective ones of the
22 multiple applications having been published by multiple information sources on
23 the Intranet.
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1 10. (Previously presented) A computer-readable medium as recited in
2 claim 7, wherein the at least one application is multiple applications, respective
3 ones of the multiple applications having been published by multiple information
4 sources on the Intranet, the multiple information sources comprising one or more
5 of a directory service, a Systems Management Server (SMS), and an office
6 computer associated with the user.

7
8 11. (Original) A computer-readable medium as recited in claim 7,
9 wherein the computer-executable instructions further comprise, responsive to
10 receiving the discovery response from the Web service, instructions for presenting
11 respective shortcuts to the user, each shortcut corresponding to an individual one
12 of remote applications identified in the discovery response, each shortcut being
13 selectable by the user to invoke a terminal service, the terminal service executing a
14 corresponding remote application on an associated installation point on the
15 Intranet.

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17 12. (Original) A computer-readable medium as recited in claim 11,
18 wherein the shortcuts represent a merged view of the remote applications, the
19 merged view being independent of respective ones of one or more installations
20 points on the Intranet.
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1 13. (Original) A remote client computer for enumerating applications
2 deployed in an Intranet, the remote client computer being deployed external to the
3 Intranet, the remote client computer comprising:

4 a processor; and

5 a memory coupled to the processor, the memory comprising computer-
6 program instructions executable by the processor and comprising instructions for:

7 sending a remote application discovery request to a Web service, the Web
8 service being deployed on a remote applications publication (RAP) Web server in
9 the Intranet, the remote application discovery request being sent to the Web
10 service by the remote client computer via a public network coupling the remote
11 client computer to the Web server; and

12 responsive to the sending, receiving a discovery response from the Web
13 service, the discovery response identifying at least one application installed on the
14 Intranet for terminal server (TS) based access by a user of the remote client
15 computer.

16
17 14. (Original) A remote client computer as recited in claim 13, wherein
18 the instructions for sending and receiving are independent of a Virtual Private
19 Network connection between the remote client computer and the Intranet.

20
21 15. (Original) A remote client computer as recited in claim 13, wherein
22 the at least one application is multiple applications, respective ones of the multiple
23 applications having been published by multiple information sources on the
24 Intranet.
25

1 16. (Previously presented) A remote client computer as recited in claim
2 13, wherein the at least one application is multiple applications, respective ones of
3 the multiple applications having been published by multiple information sources
4 on the Intranet, the multiple information sources comprising one or more of a
5 directory service, a Systems Management Server (SMS), and an office computer
6 associated with the user.

7
8 17. (Original) A remote client computer as recited in claim 13, wherein
9 the computer-program instructions further comprise, responsive to receiving the
10 discovery response from the Web service, instructions for presenting respective
11 shortcuts to the user, each shortcut corresponding to an individual one of remote
12 applications identified in the discovery response, each shortcut being selectable by
13 the user to invoke a terminal service, the terminal service executing a
14 corresponding remote application on an associated installation point on the
15 Intranet.

16
17 18. (Original) A remote client computer as recited in claim 17, wherein
18 the shortcuts represent a merged view of the remote applications, the merged view
19 being independent of respective ones of one or more installations points on the
20 Intranet.
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1 19. (Original) A remote client computer for enumerating applications
2 deployed in an Intranet, the remote client computer being deployed external to the
3 Intranet, the remote client computer comprising:

4 means for sending a remote application discovery request to a Web service,
5 the Web service being deployed on a remote applications publication (RAP) Web
6 server in the Intranet, the remote application discovery request being sent to the
7 Web service by the remote client computer via a public network coupling the
8 remote client computer to the Web server; and

9 means for responsive to the sending, receiving a discovery response from
10 the Web service, the discovery response identifying at least one application
11 installed on the Intranet for terminal server (TS) based access by a user of the
12 remote client computer.

13
14 20. (Original) A remote client computer as recited in claim 19, wherein
15 the means for sending and receiving are independent of a Virtual Private Network
16 connection between the remote client computer and the Intranet.

17
18 21. (Original) A remote client computer as recited in claim 19, wherein
19 the at least one application is multiple applications, respective ones of the multiple
20 applications having been published by multiple information sources on the
21 Intranet.

1 22. (Previously presented) A remote client computer as recited in claim
2 19, wherein the at least one application is multiple applications, respective ones of
3 the multiple applications having been published by multiple information sources
4 on the Intranet, the multiple information sources comprising one or more of a
5 directory service, a Systems Management Server (SMS), and an office computer
6 associated with the user.

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8 23. (Original) A remote client computer as recited in claim 19, wherein
9 the remote client computer further comprises, responsive to receiving the
10 discovery response from the Web service, means for presenting respective
11 shortcuts to the user, each shortcut corresponding to an individual one of remote
12 applications identified in the discovery response, each shortcut being selectable by
13 the user to invoke a terminal service, the terminal service executing a
14 corresponding remote application on an associated installation point on the
15 Intranet.

16
17 24. (Original) A remote client computer as recited in claim 23, wherein
18 the shortcuts represent a merged view of the remote applications, the merged view
19 being independent of respective ones of one or more installations points on the
20 Intranet.
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